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The corresponding epochs for the two stations in the southern hemisphere in like manner agree with one another. The *easterly maximum* occurs between 6 p. m. and 7 p. m. at St. Helena and the Cape of Good Hope, and the *easterly minimum* between 5 a. m. and 6 a. m. It is deserving of remark that these epochs do not differ considerably from those of the *opposite* movements in the northern hemisphere, the *easterly* extreme in the one corresponding nearly with the *westerly* extreme in the other. A similar opposition in the phenomena of the *regular* diurnal change in the two hemispheres was pointed out by the author on a former occasion, and there seems good reason to suppose that the two facts are physically related.

It appears, then, that the principal epochs of the disturbance-currents depend, in their mean values, upon the sun's hour-angle, and are independent of the longitude of the place at which they occur.

The foregoing relations, in the phenomena of the disturbance-currents, or in those of their effects, appear to be of a very general nature, and such as to afford a distinct basis for physical theory. The author hoped to resume the subject upon a future occasion.

MONDAY, MAY 12, 1862.

The VERY REV. CHARLES GRAVES, D. D., President, in the Chair.

RESOLVED, on the recommendation of the Council,—That the sum of £50 be placed at the disposal of the Council for the purchase of antiquities, and for the arrangement of the Museum.

Captain Meadows Taylor, by permission of the Academy, read a paper “On the Cromlechs and other Antiquarian Remains in the Deccan.”

The SECRETARY of the Academy read the following paper by Lieutenant J. HAUGHTON, R. A. :—

ON THE DIFFERENCE BETWEEN RAIN-FALL AND EVAPORATION AT
ST. HELENA IN 1860.

THE following observations were made, at the request of the Rev. Professor Haughton, in the island of St. Helena, under the following conditions:—

The *evaporation gauge* consisted of a cylindrical glass vessel, 9 inches high, and 4·85 inches wide. The level of the water was read off, and brought to the zero (at the middle of the vessel) every Sunday morning, at 10.45 a. m. The gauge was placed on the exposed roof of a house, 15 feet high, and was open on all sides to rain, wind, and sun. It was at the leeward side of the island, the wind blowing almost always S. E. The gauge was exactly 700 feet above the sea-level.

In the year (of fifty-two weeks) commencing 12th February, 1860, and ending 10th February, 1861, the total excess of evaporation over rain-fall was 81·42 inches; and in no single week did the rain-fall exceed the evaporation.

ST. HELENA.—FEBRUARY, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12	.	S. E.	K	Bright sunshine; sky half clear.
13	.	"	K. N.	Intermittent sunshine, with heavy showers.
14	.	"	N.	Ditto, and light rain.
15	.	"	K.	Bright sunshine all day.
16	.	"	C.	Ditto.
17	.	"	K.	Ditto.
18	.	"	K.	Ditto, but heavy shower at sunset.
19	- 1.75	"	K. S.	Bright sunshine nearly all day; rain in afternoon.
20	.	"	K.	Ditto, ditto.
21	.	"	K. N.	Ditto, ditto.
22	.	"	K. S.	{ Intermittent sunshine, shower in afternoon, and heavy showers at night.
23	.	"	K.	Bright sunshine; heavy showers at night.
24	.	"	..	Ditto, ditto.
25	.	"	..	Ditto.
26	- 2.50	N. N. W.	..	Ditto; very little wind.
27	.	S. E.	K.	Ditto.
28	.	"	K.	Intermittent sunshine; continued rain in morning.
29	.	"	K.	Ditto.
	- 4.25			

ST. HELENA.—MARCH, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	— 4·25			
1	..	S. E.	None.	Bright sunshine all day.
2	..	"	N.	{ Continued rain before 9 A.M. ; bright sunshine
3	..	"	None.	{ afterwards.
4	— 1·95	"	N.	Bright sunshine.
5	..	"	K.	{ Rain for an hour at noon ; bright sunshine rest
6	..	"	K. N.	{ of day.
7	..	"	K.	Intermittent sunshine.
8	..	"	K. N.	Ditto.
9	..	"	K.	Sky obscured nearly all day.
10	..	"	K.	Bright sunshine.
11	— 2·15	"	K. N.	Sky obscured nearly all day.
12	..	"	K. N.	Intermittent sunshine.
13	..	"	K. N.	Ditto.
14	..	"	K. N.	Ditto.
15	..	"	K.	Bright sunshine all day.
16	..	"	K.	Intermittent sunshine.
17	..	"	K.	Sky obscured.
18	— 2·05	"	K.	Intermittent sunshine.
19	..	"	K.	Ditto.
20	..	"	K. N.	Ditto ; showers at night.
21	..	"	K. N.	Ditto, and light rain.
22	..	"	K. N.	Ditto, ditto.
23	..	N.	K. S.	Very calm ; intermittent sunshine.
24	..	S. E.	K. N.	Intermittent sunshine, and light rain.
25	— 1·60	W.	K.	Calm ; intermittent sunshine.
26	..	S. E.	K.	Intermittent sunshine.
27	..	"	K.	Ditto.
28	..	"	K.	Bright sunshine.
29	..	"	K.	Ditto.
30	..	"	K. C.	Ditto.
31	..	"	K. N.	Ditto, and heavy showers ; strong wind.
	— 12·00			

ST. HELENA.—APRIL, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	- 12·00			
1	- 1·95	S. E.	. .	Intermittent sunshine, and rain.
2	..	"	K. N.	Frequent showers.
3	..	"	N.	Ditto; sky obscured.
4	..	"	. .	Light rain nearly all day.
5	..	"	K. N.	Intermittent sunshine, and light rain.
6	..	"	"	Intermittent sunshine.
7	..	"	K.	Ditto.
8	- 1·45	E.	"	Ditto.
9	..	S. E.	None.	Bright sunshine.
10	..	"	"	Ditto.
11	..	"	S.	Bright sunshine; hardly any cloud.
12	..	"	None.	Bright sunshine.
13	..	"	"	Ditto.
14	..	"	C.	Ditto; hardly any cloud.
15	- 2·15	"	K.	Ditto.
16	..	"	"	Ditto.
17	..	"	C. K.	Ditto.
18	..	"	K. C. S.	Intermittent sunshine.
19	..	"	K.	Bright sunshine.
20	..	"	C. K.	Ditto.
21	..	W. N. W.	S. K.	Intermittent sunshine; very little wind.
22	- 2·00	S. E.	None.	Strong wind.
23	..	"	N.	Bright sunshine.
24	..	"	K. S.	Ditto, and strong wind.
25	..	"	N. K.	{ Intermittent sunshine, and light rain; gale and small whirlwinds.
26	..	"	N. K. S.	Intermittent sunshine; rain at night.
27	..	"	N. K.	Intermittent sunshine.
28	..	"	N.	Light rain all day; very heavy rain in country.
29	- 1·60	"	N. S.	Rain nearly all day.
30	..	"	K.	Bright sunshine.
	- 21·15			

ST. HELENA.—MAY, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	- 21·15			
1	..	S. E.	K.	Intermittent sunshine.
2	..	"	?	Covered sky; light showers.
3	..	"	K.	Intermittent sunshine, and a few showers.
4	..	"	?	Rain nearly all day.
5	..	"	S. K. N.	Intermittent sunshine; rain at night.
6	- 0·80	"	K. N.	Ditto, and rain.
7	..	"	"	Ditto.
8	..	"	"	Ditto, and strong wind.
9	..	"	K.	Ditto.
10	..	"	K. S.	Bright sunshine.
11	..	"	K.	Intermittent sunshine.
12	..	"	"	Ditto, and rain at night.
13	- 1·75	"	"	Ditto.
14	..	"	K. N. S.	Ditto.
15	..	"	K. N.	Ditto.
16	..	"	"	Ditto.
17	..	"	"	Ditto, and a little rain.
18	..	"	"	Ditto, ditto.
19	..	"	S. K.	Ditto.
20	- 1·70	"	K. N. S.	Ditto, and rain.
21	..	"	K. N.	Heavy rain in the morning and night.
22	..	"	N.	Light rain nearly all day.
23	..	"	K.	Intermittent sunshine.
24	..	"	K. N.	Ditto, and rain in afternoon.
25	..	"	K. S.	Ditto.
26	..	"	?	Covered sky.
27	- 1·05	"	K. S.	Intermittent sunshine.
28	..	"	"	Ditto.
29	..	"	?	{ Light rain nearly all day; strong wind; sky covered by day, clear at night.
30	..	"	K. N.	Light rain nearly all day.
31	..	"	"	Ditto.
	- 26·45			

ST. HELENA.—JUNE, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	- 26·45			
1	..	S. E.	N.	Light rain nearly all day.
2	..	"	K.	Bright sunshine.
3	- 1·12	"	"	Ditto.
4	..	"	K. S.	Ditto.
5	..	"	"	Bright sunshine; calm.
6	..	"	K. C.	Ditto, ditto.
7	..	"	K.	Ditto, ditto.
8	..	"	C. K.	Bright sunshine.
9	..	"	K.	Ditto.
10	- 1·40	"	K. S.	Ditto.
11	..	"	"	Ditto.
12	..	"	K.	Intermittent sunshine, and light rain.
13	..	"	K. S.	Ditto, ditto.
14	..	"	K.	Ditto, ditto.
15	..	"	"	Ditto.
16	..	"	"	Ditto, and strong wind.
17	- 1·85	"	?	Covered sky; strong wind; rain all afternoon.
18	..	"	?	Ditto, ditto.
19	..	"	K.	Intermittent sunshine.
20	..	"	"	Bright sunshine.
21	..	"	K. N.	{Light rain in the morning, and bright sun in afternoon; calm.
22	..	"	K.	Bright sunshine.
23	..	"	"	Ditto.
24	- 1·65	"	?	Covered sky; calm.
25	..	"	?	Ditto; a shower in evening.
26	..	"	?	Intermittent sunshine, and light rain.
27	..	"	C. N.	Bright sunshine and a few showers.
28	..	"	?	Covered sky.
29	..	"	None.	Bright sunshine.
30	..	"	"	Ditto.
	- 32·47			

ST. HELENA.—JULY, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	- 32.47			
1	- 1.45	S. E.	?	Sky covered by day; strong wind.
2	..	"	K.	Bright sunshine.
3	..	"	K. N.	{ Intermittent sunshine in morning; heavy rain } in afternoon and evening.
4	..	"	K. C. N.	Intermittent sunshine, and heavy showers.
5	..	"	?	Rain nearly all day.
6	..	"	?	Ditto.
7	..	"	?	Intermittent sunshine, and rain.
8	- 0.65	"	?	Light rain nearly all day.
9	..	"	?	Sky covered; some showers of light rain.
10	..	"	?	Ditto, ditto.
11	..	"	?	Sky covered.
12	..	"	?	Sky covered, and light rain nearly all day.
13	..	"	?	Sky covered, and a little rain.
14	..	"	K. S.	Intermittent sunshine.
15	- 1.15	"	?	Sky covered.
16	..	"	K.	Intermittent sunshine.
17	..	"	"	Ditto.
18	..	"	K. C.	Ditto.
19	..	"	K. S.	Bright sunshine.
20	..	"	K. N.	Intermittent sunshine.
21	..	"	"	Ditto; calm.
22	- 1.40	"	None.	Bright sunshine; calm.
23	..	"	K.	Ditto.
24	..	"	K. S.	Bright sunshine; calm.
25	..	N. E.	S.	Ditto, do.
26	..	N. N. E.	?	Light rain nearly all day.
27	..	S. E.	K.	Intermittent sunshine; fresh breeze.
28	..	"	"	Ditto, and light rain.
29	- 1.15	"	?	Strong wind; covered sky; light showers.
30	..	"	?	{ Intermittent sunshine, and light rain; very } strong wind.
31	..	"	K. N.	Intermittent sunshine, and light rain.
	- 38.27			

ST. HELENA.—AUGUST, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	— 38·27			
1	..	N.	None.	Bright sunshine.
2	..	N.	"	Ditto; light wind.
3	..	S. E.	K. C.	Ditto.
4	..	"	K.	Intermittent sunshine; strong wind.
5	— 1·40	"	10	Covered sky; light showers; very strong wind.
6	..	"	"	Light rain nearly all day; very strong wind.
7	..	"	"	Ditto, ditto.
8	..	"	K. N.	Intermittent sunshine, and light rain.
9	..	"	"	Ditto, ditto.
10	..	"	10	
11	..	"	?	Intermittent sunshine, and a little rain.
12	— 1·15	"	10	Calm.
13	..	N.	K.	Bright sunshine; very calm.
14	..	S. E.	"	Intermittent sunshine; calm.
15	..	"	"	Ditto.
16	..	"	"	Ditto.
17	..	"	10	
18	..	"	"	A little rain.
19	— 1·20	N.	K. N.	Intermittent sunshine, and light rain; light wind.
20	..	S. E.	K. N.	Bright sunshine.
21	..	N. N. W.	K.	Ditto.
22	..	S. E.	"	Ditto.
23	..	"	K. C. N.	Intermittent sunshine, and light rain.
24	..	"	K. N.	Ditto, ditto.
25	..	"	10	Light rain.
26	— 1·15	"	K. N.	Intermittent sunshine, and rain.
27	..	"	"	Intermittent sunshine; rain at night.
28	..	"	K. C. N. S.	Ditto, ditto.
29	..	"	K. N.	Intermittent sunshine, and light rain.
30	..	"	10	Some light rain.
31	..	"	K. N.	Intermittent sunshine, and a little rain.
	— 43·17			

ST. HELENA.—SEPTEMBER, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	<u>- 43·17</u>			
1	..	S. E.	K. N.	Intermittent sunshine, and some light rain.
2	- 1·20	"	10	Showers of light rain.
3	..	"	K. N.	Intermittent sunshine, and much rain at night.
4	..	"	K. S.	Bright sunshine.
5	..	"	K.	Intermittent sunshine, and a little rain.
6	..	"	"	Ditto, ditto.
7	..	"	K. N.	Intermittent sunshine, and rain; strong wind.
8	..	"	?	Light showers all day; strong wind.
9	- 1·05	"	N.	{ Intermittent sunshine, and rain; showers all day, at intervals of ten minutes.
10	..	"	K. N.	Intermittent sunshine, and little rain.
11	..	"	K.	Intermittent sunshine.
12	..	"	"	Ditto.
13	..	N. N. W.	None.	Calm.
14	..	N. W.	K.	Bright sunshine; very light wind.
15	..	{ N.N.W. & E. N. E. }	"	{ Bright sunshine by day; rain and overcast sky at night.
16	- 1·50	S. E.	"	Bright sunshine; rain at night.
17	..	"	10	Very strong wind; rain.
18	..	"	K. N.	Ditto, ditto.
19	..	"	10	Strong wind.
20	..	"	?	Intermittent sunshine.
21	..	"	10	
22	..	"	"	Very strong wind.
23	- 1·40	"	?	{ Ditto; intermittent sunshine; rain in after- noon, and at night.
24	..	"	10	Light rain for greater part of day and night.
25	..	"	"	Much light rain; strong wind.
26	..	"	"	Ditto, ditto.
27	..	"	K. C.	{ Intermittent sunshine, and a little rain; sky clear at night.
28	..	"	K. 10	Intermittent sunshine; strong wind.
29	..	"	K. N.	Bright sunshine; a little rain.
30	- 1·60	"	?	Intermittent sunshine, and light rain.
	<u>- 49·92</u>			

LADDER HILL, ST. HELENA.—OCTOBER, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	- 49.92			
1	..	N. E.	0	Calm.
2	..	"	"	Do.
3	..	S. E.	"	Light rain nearly all day.
4	..	"	K.	Bright sunshine.
5	..	"	0	Light rain during greater part of day.
6	..	"	"	A little rain.
7	- 1.60	"	?	Intermittent sunshine.
8	..	N. N. W.	None.	Bright sunshine; light wind.
9	..	S. E.	"	{ Ditto; thin mist on peaks; wind light at { Ladder Hill, but very strong on hills.
10	..	"	K.	Intermittent sunshine; little rain.
11	..	"	0	Light rain all day.
12	..	"	"	Ditto.
13	..	"	"	Light rain nearly all day.
14	- 1.35	"	?	Intermittent sunshine, and light rain.
15	..	"	"	Ditto, ditto.
16	..	"	0	Light intermittent showers.
17	..	"	?	Intermittent sunshine, and light rain.
18	..	"	K.	Intermittent sunshine.
19	..	"	"	Ditto.
20	..	"	"	Ditto, and a little rain.
21	- 1.35	N. W.	?	Intermittent sunshine in mg.; light rain in aft'n.
22	..	S. E.	0	
23	..	"	"	A little rain.
24	..	"	?	Intermittent sunshine, and a little rain.
25	..	"	"	Ditto, ditto.
26	..	"	"	Ditto, ditto.
27	..	"	"	Ditto, ditto.
28	- 1.45	"	0	Intermittent showers.
29	..	"	"	Ditto.
30	..	"	"	Ditto.
31	..	"	?	Intermittent sunshine, and light rain.
	- 55.67			

LADDER-HILL, ST. HELENA.—NOVEMBER, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	— 55·67			
1	..	S. E.	Overcast.	Light showers.
2	..	"	"	Ditto.
3	..	"	"	Ditto.
4	— 1·15	"	?	Light showers, and faint sunshine.
5	..	"	Overcast.	Intermittent showers.
6	..	"		
7	..	"	K. S.	Intermittent sunshine.
8	..	S.	K.	Ditto.
9	..	S. E.	K. C.	Ditto.
10	..	"	C. K. N.	Ditto; very strong whirlwind, 10 ft. diam.
11	— 1·45	"	K. N.	Ditto; dense fog on hills.
12	..	"	K.	Ditto, and overcast sky.
13	..	"	?	Ditto, and light rain.
14	..	"	K. S.	Ditto, and dense fog on hills.
15	..	"	K. N.	Bright sunshine.
16	..	"	K., and overcast.	} Intermittent sunshine.
17	..	"	Overcast.	
18	— 1·70	"	K. S.	Light rain, and fog on hills; faint sunshine.
19	..	"	?	Intermittent sunshine.
20	..	"	?	Ditto.
21	..	"	?	Ditto, ditto.
22	..	"	?	Ditto, ditto.
23	..	"	Overcast.	Fog.
24	..	"	?	Intermittent showers of light rain.
25	— 1·65	"	?	Intermittent sunshine, and light rain.
26	..	"	K. U.	Ditto, ditto.
27	..	"	"	Ditto, ditto.
28	..	"	"	Ditto, ditto.
29	..	"	K. S. N.	Ditto.
30	..	"	?	Ditto, ditto.
	— 61·62			

LADDER-HILL, ST. HELENA.—DECEMBER, 1860.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	— 61·62			
1	..	S. E.	C. K.	Bright sunshine.
2	— 1·65	"	K. S.	Ditto.
3	..	"	K.	Ditto.
4	..	"	K. U.	Ditto.
5	..	"	?	Intermittent sunshine, and light rain.
6	..	"	Overcast.	Ditto.
7	..	"	K. N. S	{ Faint sunshine; much light rain in country; a little at Ladder Hill.
8	..	"	?	Bright sunshine.
9	— 1·65	"	?	Intermittent sunshine, and showers of rain.
10	..	"	K. S.	Bright sunshine.
11	..	"	"	Ditto.
12	..	"	?	Bright sunshine till three, then a sultry mist. { Small round clouds, crowded together; sultry mist in country, supposed to be destructive of
13	..	"	"	Light rain. [the life of plants.
14	..	"	Overcast.	
15	..	"	?	Light rain, and faint sunshine.
16	— 1·35	"	Overcast.	Light showers.
17	..	"	"	Light showers; large rollers at sea.
18	..	"	K. S.	Ditto, and intermit. sun.; large rollers at sea.
19	..	"	Overcast.	Light rain.
20	..	"	"	Ditto.
21	..	"	"	Ditto.
22	..	"	"	Ditto.
23	— 1·00	"	?	Intermittent sunshine, and a little rain.
24	..	"	K. S.	Ditto, ditto.
25	..	"	K. N.	Ditto, ditto.
26	..	"	"	Ditto, ditto.
27	..	"	"	Ditto.
28	..	"	K. S.	Ditto; large rollers.
29	..	E.	K. C.	{ Bright sunshine; cirri radiating from a point N.N.E. on horizon.
30	— 1·75	S. E.	None.	Bright sunshine.
31	..	C.		Ditto.
	— 69·02			

LADDER-HILL, ST. HELENA.—JANUARY, 1861.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	- 69°02			
1	..	S. E.	C.	Bright sunshine.
2	..	"	C. K.	Ditto.
3	..	"	Overcast.	Faint sunshine.
4	..	"	K.	Intermittent sunshine.
5	..	"	"	Bright sunshine.
6	- 1°95	"	K. U.	Ditto; sultry mist on hills.
7	..	"	N.	Intermittent sunshine; nimbus resting on sea.
8	..	"	K.	Bright sunshine.
9	..	"	"	Ditto.
10	..	"	"	Intermittent sunshine.
11	.	"	K. U.	Ditto; shower in morning.
12	..	"	Overcast.	Faint sunshine.
13	- 1°70	"	?	Intermittent sunshine, and overcast sky.
14	..	"	K. C.	Bright sunshine.
15	..	"	"	Ditto.
16	..	"	K. S.	Ditto.
17	..	"	K.	Ditto.
18	..	"	"	Ditto; rain at night.
19	..	N. W.	Overcast.	Very light rain in morning; wind light.
20	- 1°85	W.	K. U.	Intermittent sunshine; wind light.
21	..	S. E.	K. S.	Ditto; sky clear at night.
22	..	"	K.	Bright sunshine; a little rain at night.
23	..	"	"	Ditto.
24	..	"	"	Ditto.
25	..	"	K. C.	Ditto; large rollers at sea.
26	..	"	K.	Ditto. ditto.
27	- 2°25	"	"	Ditto, ditto.
28	..	"	"	Ditto.
29	..	"	"	Ditto.
30	..	"	"	Ditto.
31	..	"	?	Intermittent sunshine; large rollers.
	- 76°77			

LADDER-HILL, ST. HELENA.—FEBRUARY, 1861.

Day.	Height of Water in Inches.	Wind.	Prevailing Clouds.	REMARKS.
	— 76·77			
1	..	S. E.	Overcast.	Faint sunshine; large rollers.
2	..	"	K.	Bright sunshine; ditto.
3	— 2·40	"	K. U.	Intermittent sunshine, and a little rain.
4	..	"	K. S.	Ditto; large rollers.
5	..	"	K. U.	Ditto; a little rain.
6	..	"	"	Bright sunshine.
7	..	"	"	Ditto.
8	..	"	"	Ditto.
9	..	"	Overcast.	Intermittent sunshine.
10	— 2·25	"	"	Faint sunshine.
	— 81·42			
11				
12				
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28				

W. R. Wilde, Esq., on the part of the Rev. E. W. Barnwell, of Rathlin, presented three plaster casts of celts, and an original bronze socketed celt, from the neighbourhood of Cape Finisterre; he also exhibited some stone celts, found by that gentleman at Carnac, in Britanny. Mr. Wilde also presented an iron sword, found in the Boyne, on the part of Dr. Drew, of Drogheda; and a small copper ring, plated with gold, similar to No. 287 in Catalogue, Part III., p. 88.

The Rev. Dr. Reeves, on the part of the Rev. William Handcock, of Colehill House, presented to the Academy an original letter of Oliver Goldsmith, written to the donor's maternal grandfather, Robert Bryanton, Esq., of Ballymahon, dated London, August 14, 1758. He also, on behalf of the same gentleman, exhibited another letter from Oliver Goldsmith to Mr. Bryanton, written at an earlier date.

The thanks of the meeting were voted to the donors.

On the recommendation of Council, it was—

RESOLVED,—That the sum of £50 be placed at the disposal of the Council for the purchase of Antiquities, and for the arrangement of the Museum.

MONDAY, MAY 26, 1862.

The **VERY REV. CHARLES GRAVES**, D. D., President, in the Chair.

Robert M'Donnell, M. D., read a paper “On the Lateral Line in Fishes.”

The Rev. Professor HAUGHTON read the following paper:—

**ON THE RAIN-FALL AND EVAPORATION IN DUBLIN IN THE YEAR
1860.**

THE observations, of which the following Tables contain the results, were made in Dublin, on the roof of the Magnetical Observatory, with a cylindrical glass vessel, eight inches in diameter, freely exposed to both rain-fall and evaporation.

I have added the daily rain-fall, the direction of the wind, and the dew point, observed at 10 A. M. From these observations it appears that the evaporation exceeded the rain-fall during the first fifty weeks of the year by 1·62 inches; the rain-fall during that time having been 34·643 inches (to which was added during the last sixteen days of the year 1·239 inches—making a total rain-fall of 35·882 inches); and the evaporation during the fifty weeks amounted to 36·263 inches, leaving a balance in favour of evaporation of 1·62 inches.

During twenty-three weeks of the entire fifty weeks the rain-fall exceeded the evaporation by 11·40 inches; and during twenty-six weeks the evaporation exceeded the rain-fall by 13·02 inches, and in one week they were equal to each other.